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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/726,277	11/30/2000	Theodore Hagelin	156P013	5290
759	90 11/21/2005		EXAM	INER
George R. McGuire HANCOCK & ESTABROOK, LLP			NELSON, FREDA ANN	
1500 MONY Tower I			ART UNIT	PAPER NUMBER
PO Box 4976			3639	
Syracuse, NY 13221-4976			DATE MAILED: 11/21/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · ·		Application No.	Applicant(s)			
Office Action Summary		09/726,277	HAGELIN, THEODORE			
		Examiner	Art Unit			
		Freda A. Nelson	3639			
Period fo	The MAILING DATE of this communication ap or Reply	opears on the cover sheet with the c	correspondence address			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING I nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication, period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statu- tely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status		•				
1) 又	Responsive to communication(s) filed on 17	October 2005.				
	•	· /				
•=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4) 🖾	4)⊠ Claim(s) <u>4,6-8,12-14 and 18-21</u> is/are pending in the application.					
-	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	5) Claim(s) is/are allowed.					
6)⊠	6)⊠ Claim(s) <u>4,6-8,12-14 and 18-21</u> is/are rejected.					
7)						
8)□	8) Claim(s) are subject to restriction and/or election requirement.					
Applicati	on Papers					
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119					
• •	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority documents	nts have been received.				
	2. Certified copies of the priority documer3. Copies of the certified copies of the priority					
	application from the International Bure		eu III tilis National Stage			
* 5	* See the attached detailed Office action for a list of the certified copies not received.					
A44-ab	- Was					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:						
-1	· · · · · · · · · · · · · · · · · · ·					

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DETAILED ACTION

The amendment received on October 17, 2005 is acknowledged and entered.

Claims 4, 7-8, 14, and 21 have been amended. Claims 1-3, 5, 9-11, 15-17, and 22-24 have been canceled. No claims have been added. Claims 4, 6-8, 12-14, and 18-21 are currently pending.

Response to Amendment and Arguments

Applicant's arguments with respect to claims 4, 6-8, 12-14, and 18-21 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 4, 6-8, 12-14, and 18-21 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

As per claims 4, 6-8, 12-14, and 18-21, the invention, as defined by the claims and as best understood merely manipulate an abstract idea or perform a purely mathematical algorithm with no useful purpose, as nothing is done with the result or a result cannot be determined, assured or reproducible, or a result cannot be repeated. The invention does not require physical acts to be performed outside the computer independent of and following the steps to be performed by a programmed computer, where those acts involve the manipulation of tangible physical objects and result in the object having a different physical attribute or structure. See *Diamond v. Diehr*, 450 US

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at 187, 209 USPQ at 8. The steps of calculating a monetary value of a tangible asset associated with said tangible asset using said computer program does not impose independent limitations on the scope of the claim beyond those required by the mathematical operation and abstract limitations because the calculated monetary values are not actual measured values of physical phenomena. *In re Galnovatch*, 595 P.2d at 41 n.7, 201 USPQ at 145 n.7; *In re Sarker*, 588 F.2d at 1331, 200 USPQ at 135. The steps of "calculating" have no direct effect on the physical world outside the computer. Thus, the claimed invention merely inputs data into the system and performs a mathematical algorithm without any limitation to a practical application as a result of the algorithm or outcome and is therefore deemed to be non-statutory

Furthermore, in determining whether the claimed subject matter is statutory under 35 U.S.C. 101, a practical application test should be conducted to determine whether a "useful, concrete and tangible result" is accomplished. See *AT&T Corp. v. Excel Communications, Inc.*, 172 F.3d 1352, 1359-60, 50 USPQ2d 1447, 1452-53 (Fed. Cir. 1999); *State Street Bank & Trust Co. v. Signature Financial Group, Inc.*, 149 F.3d 1368, 1373, 47 USPQ2d 1596, 1600 (Fed. Cir. 1998).

An invention, which is eligible or patenting under 35 U.S.C. 101, is in the "useful arts" when it is a machine, manufacture, process or composition of matter, which produces a concrete, tangible, and useful result. The fundamental test for patent eligibility is thus to determine whether the claimed invention produces a "use, concrete and tangible result". The test for practical application as applied by the examiner involves the determination of the following factors"

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(a) "Useful" – The Supreme Court in *Diamond v. Diehr* requires that the examiner look at the claimed invention as a whole and compare any asserted utility with the claimed invention to determine whether the asserted utility is accomplished.

Applying utility case law the examiner will note that:

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- i. the utility need not be expressly recited in the claims, rather it may be inferred.
 - ii. if the utility is not asserted in the written description, then it must be well established.
- (b) "Tangible" Applying *In re Warmerdam*, 33 F.3d 1354, 31 USPQ2d 1754 (Fed. Cir. 1994), the examiner will determine whether there is simply a mathematical construct claimed, such as a disembodied data structure and method of making it. If so, the claim involves no more than a manipulation of an abstract idea and therefore, is nonstatutory under 35 U.S.C. 101. In *Warmerdam* the abstract idea of a data structure became capable of producing a useful result when it was fixed in a tangible medium, which enabled its functionality to be realized.
- (c) "Concrete" Another consideration is whether the invention produces a "concrete" result. Usually, this question arises when a result cannot be assured. An appropriate rejection under 35 U.S.C. 101 should be accompanied by a lack of enablement rejection, because the invention cannot operate as intended without undue experimentation.

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The claims, as currently recited, appear to be directed to nothing more than a series of steps including calculating a monetary value by without any useful, concrete and tangible result and are therefore deemed to be non-statutory. While these numbers may be concrete and/or tangible, there does not appear to be any useful result.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Freda A. Nelson whose telephone number is (571) 272-7076. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Hayes can be reached on 571-272-6708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FAN 11/10/05

JOHN W. HATES